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SOURCE Newspapers as indicated.

UP-TO-DATE EQUIPMENT, DRILLING METHODS  
INCREASE PETROLEUM PRODUCTION

[Numbers in parentheses refer to appended sources.]

The Azneft' Association fulfilled the 1950 year plan ahead of schedule. More than 13,000 geological and technological measures have been carried out, resulting in an increase in the petroleum output of several thousand tons per day. Since the beginning of 1950, more than 2,500 of the most modern reduction-gear pumping jacks have been set up and more than 700 wells have been converted from the compressor method to the deep-well pump method.

The first trusts in the association to fulfill the year plan were the Stalinneft' and the Buzovnyneft' trusts.(1) The Stalinneft' Trust achieved this goal by 19 December and restored and put into operation 227 oil wells during 1950.(2)

Workers of the Kirovneft' Trust completed the year plan by 24 December and promised the country thousands of tons of petroleum in addition by the end of the year. Since the beginning of 1950, this trust has put into operation 173 oil wells which were either restored from inactivity or newly drilled. It has converted 130 oil wells from the compressor method to the deep-well pump method with a saving of 590,000 cubic meters of compressed air. Secondary methods of petroleum extraction are being extensively adopted. More than 70,000 cubic meters of compressed air are pumped daily into the petroleum strata with the result that thousands of additional tons of petroleum are extracted.(3)

The Leninneft' Trust completed the year plan for petroleum extraction on 23 December and has increased its active reserves by 213 oil wells, considerably exceeding its obligations. Since the beginning of 1950, it has carried out 2,952 geological and engineering measures instead of the 2,650 called for in its 1950 plan. Labor productivity for the trust has risen 3.3 percent above the plan instead of the 1.5 percent provided for. Production costs of a ton of petroleum and gas were lowered 2.8 percent instead of the 0.5 percent called for in the trust's obligations.(4) However not all oil fields, brigades, and workers were included in the success of the trust as a whole. Six out of 14 oil fields failed to meet the year norm and only 38 out of 66 brigades fulfilled their year quotas.(5)

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After lagging for a long time, the Kaganovichneft' Trust completed the 1950 year plan. This trust has increased its producing reserves 10 percent since the beginning of 1950. The petroleum workers have investigated 230 oil wells and carried out 700 geological and engineering measures. They have converted 67 wells from the compressor method to the deep-well pump method, using the 750,000 cubic meters of compressed air thus saved to bring in new wells and restore inactive wells to operation. The trust's success would have been even greater if all oil fields, enterprises, and brigades had fulfilled their quotas. Among the laggards are oil fields No 6 and 7 and the transport office (6)

The Artemneft' Trust completed the year plan on 21 December and plans to deliver several additional thousands of tons of petroleum by the end of the year. In improving the method of exploiting active reserves, the petroleum workers of Artem-Ostrov have investigated about 200 oil wells, putting 985 geological and engineering measures into effect in them. They have restored 32 inactive wells to operation and drilled many new ones. Conversion of exploitation by the compressor method to the deep-well pump method is being carried out on a broad scale. At present, dozens of reduction gear pumping-jack units are in operation on the open sea. During 1950, 26 oil wells were equipped with pumping jacks. (7)

The petroleum industry is a new branch of the heavy industry of the Tatar ASSR. Considerable deposits here are included in the area of the so-called Second Baku. Stakhanovites of the Bavlly, Novo-Pis'mennyy, and Shugurovo oil fields are competing to increase the petroleum output and to transform their republic into one of the largest petroleum regions of the USSR. (5)

The petroleum industry of the Bashkir ASSR is continually receiving automatic instruments designed by Soviet engineers. The Tuymazaneft' Trust has installed automatic regulators of the level of the liquid and the pressure in traps in many oil wells. Almost all gushers are supplied with automatic electric winches. (8)

In the past 2 years, the Tuymazaneft' Trust has successfully mastered the forced method of drilling deep oil wells with a turbodrill. This method was developed by the engineering and technical personnel of the trust with the participation of masters of drilling, Laureates of Stalin Prizes Balabanov and Kupriyanov. Even in 1949 this method raised the speed in drilling to 900-1,000 meters per machine month. This was also the usual speed in 1950 for brigades using this method of drilling, but at one well a speed of 1,145 meters was achieved, at another, 1,110 meters. The technical and economic indexes have improved continuously. Only 82 bits were worn out in drilling well No 477 and only 75 at well No 478 instead of the norm of 109.

The forced method of drilling makes possible the achievement of high speed in drilling the hard rock of the East with a comparatively small increase in the amount of clayey solution pumped by the mud pumps (from 30-32 to 43-45 liters per second).

Some of the equipment at the disposal of petroleum workers of the Tuymazaneft' Trust are as follows: U8-3 mud pumps, two of which working together discharge 43-45 liters of clayey solution and create a pressure of 100-120 atmospheres, ZS drilling bits with a diameter of 2 3/4 inches, "ZS" drilling bits 1 5/8 inches in diameter, ZIS-7, ZT, and SK bits with 1 3/4 inches in diameter, and KMK bits for the use of geologists. (9)

Enterprises of the Azneftezavody Association completed the year plan for light oils by 19 December and for light-colored petroleum products by 26 December. During December, the refineries delivered tens of thousands of tons of products above the plan. At the same time, production costs were reduced and above-plan receipts obtained. The refineries reduced their fuel consumption greatly, saving tens of thousands of tons, five times as much as their obligations.

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Among the outstanding enterprises were the Order of Lenin Refinery imeni Stalin which completed the year plan ahead of schedule and refined thousands of tons of light-colored petroleum products and tens of thousands of lube oils above their obligations. Workers at many installations of the Labor Red Banner Refinery imeni Andreyev are fulfilling their obligations in a model manner. Workers of the Labor Red Banner Refinery imeni Vano Sturua have delivered several thousands of tons of fuel above the year plan and their obligations. Workers of the Refinery imeni Dzhaparidze fulfilled the year plan ahead of schedule.(6)

## SOURCES

1. Baku, Bakinskiy Rabochiy, 31 Dec 50
2. Ibid., 20 Dec '50
3. Ibid., 25 Dec 50
4. Ibid., 24 Dec 50
5. Ibid., 16 Jan 51
6. Ibid., 29 Dec 50
7. Ibid., 23 Dec 50
8. Moscow, Izvestiya, 9 Jan 51
9. Moscow, Trud, 30 Jan 51

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